

STATE OF MICHIGAN



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

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RUSSELL J. HARDING, Director

REPLY TO:

STORAGE TANK DIVISION
TOWN CENTER
PO BOX 30157
LANSING MI 48909-7657

IM - 12

September 30, 1998

TO: Storage Tank Owners/Operators and Interested Parties

FROM: Amy S. Carter, Chief, Program Support Section

SUBJECT: Storage of Compressed Natural Gas for Vehicle Fueling

This informational memorandum has been prepared to identify and clarify some of the requirements for the storage of compressed natural gas engine fuel and handling for use on all types of vehicles including after marketed conversion vehicles and originally equipped manufactured compressed natural gas vehicles. The Compressed Natural Gas (CNG) Vehicular Fuel Systems Rules, are promulgated under the authority of the Michigan Fire Prevention Code, 1941 PA 207, as amended, being R 29.4601 et seq., of the Michigan Administrative Code. Rule R 29.4602 of the CNG Rules adopts by reference the National Fire Protection Association (NFPA) Standard 52, 1992 Edition, entitled "Standard for Compressed Natural Gas Vehicle Fuel Systems," with specific additions and amendments.

Installation Application and Certification. At least thirty days prior to the intended utilization of the compressed natural gas storage tank system, the owner or installer is required to submit an installation application with a plot plan and specifications in compliance with Section 1-7 of the CNG Rules.

An installation application fee of \$203.00 per tank must be included in the installation application as follows:

1 SCF - 18,000 SCF	1 Tank
18,001 SCF - 37,000 SCF.....	2 Tanks
37,001 SCF - 55,500 SCF.....	3 Tanks

A plan review report is issued within thirty days upon receipt of the plans. A local Hazardous Materials Storage Inspector (HMSI) will arrange for a site inspection and, upon installation, the installer will arrange for a final inspection. If the installation is approved, the HMSI will certify the tank system as being in compliance with the rules.

Careful identification of the applicable rules is very important to the safe and proper installation of all compressed natural gas storage tank systems. All electrical wiring must be performed by a certified electrician.

Storage: Although compressed natural gas is stored in many different types of containers, under differing temperatures and pressures, and for many different applications, the CNG Rules regulates only the storage for dispensing into motor vehicle facilities.

Storage for Motor Vehicle Dispensing Facilities: These are storage tank systems that are used in motor vehicles and storage tanks for dispensing compressed natural gas into motor vehicles. All dispensing facilities that utilize a storage container, regardless of the size or capacity of the storage container used, are required to submit an Application for Installation of Compressed Natural Gas Fueling Facilities, Form No. EQP3860. Requirements also include field inspections before and after the installation, certification by the Department of Environmental Quality, Storage Tank Division (STD), and the payment of fees. An installation application fee of \$203.00 per tank is required. For the purpose of assessing fees, each 18,500 standard cubic feet (SCF) of compressed natural gas, or increment thereof, shall be considered a tank. With the payment of this fee, the first annual storage tank fee is waived. The annual fee is \$61.50 per tank and is due in accordance with the regular billing cycle. The tank systems are field inspected prior to certification and at least once every three years thereafter.

Should you require further information, please contact the Technical Review Unit, at 517-373-8168.

cc: Mr. Arthur Nash, DEQ
Mr. Mohammad Yusaf, DEQ
Ms. Andrea Zajac, DEQ
STD, District Supervisors, DEQ